

Challenges

A major global medium and heavy truck and engine block manufacturer located in Brazil was having problems with their 25,000-gallon central system. The customer suffered from:

- High consumption
- Emulsion instability
- Fungi
- Blocked filters

Providing Solutions

Quaker addressed the situation by using their extensive experience in metal machining and introduced QUAKERAL® 370, which produced an immediate positive impact on the machining process and bottom-line cost.

The use of QUAKERAL® 370 resulted in:

- Reduced coolant consumption by 47%, representing an annual savings of nearly \$90,000!
- Improved emulsion stability, thus eliminating the necessity to use additives
- Elimination of fungi appearance and blocked filters
- Improved operator working conditions due to cleaner machines

Customer Reference

- Chrysler
- KS Pistões
- Samot

Product Description

QUAKERAL® 370 is a heavy-duty, chlorine-free, advanced ester-based product suitable for machining titanium, aluminium, steel, alloy steels and cast iron. QUAKERAL® 370 can be used on all general metalworking applications as well as arduous operations such as:

- Broaching
- Gun drilling
- Mapal reaming
- Cut tapping
- Creep feed grinding
- Hobbing
- Turbine machining
- Neat oil replacement

Process & Equipment

	Grob
Part:	Engine Block
Part Alloy:	Cast Iron
Concentration:	8 - 10%
Specific Operation:	Reaming, Tapping, Drilling, Milling and Turning

Product & Process Expertise

Metalworking lubricants represent a very minor part of the costs in a metalworking process, typically less than 1%. This case illustrates the importance of correct fluid selection. The impact of the fluid can be a multiple of its costs, making the price of a metalworking fluid insignificant. That is why Quaker focuses on developing fluids with the highest performance without compromise, fluids that sharpen your competitive edge.